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Title: POST WITH INTEGRAL HAMMER AND ANVIL

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Seattle, Washington 98101

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Enclosed is a certified copy of the following application for which a claim of priority under 35 U.S.C. § 119 has been made:

<u>Country</u>	<u>Application No.</u>	<u>Filed</u>	<u>Title</u>
CANADA	2,390,364	July 3, 2002	POST WITH INTEGRAL HAMMER AND ANVIL

Respectfully submitted,

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Specification and Drawings, as originally filed, with Application for Patent Serial No:
2,390,364, on July 3, 2002, by LEONARD ARTHUR JUBINVILLE, for "Post with
Integral Hammer and Anvil".

**CERTIFIED COPY OF
PRIORITY DOCUMENT**

Grace Paulkne
Agent certificateur/Certifying Officer

November 23, 2004

Date

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(CIPO 68)
31-03-04

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ABSTRACT OF THE DISCLOSURE

A post includes an elongate ground piercing member having a ground piercing end and an anvil end at which is positioned an anvil. The anvil is positioned within an interior cavity of a housing with the ground piercing member extending through a second end of the housing. Relative movement of the ground piercing member and the housing brings a first hammer into contact with the anvil to drive the ground piercing member into the ground. Relative movement of the ground piercing member and the housing brings a second hammer into contact with the anvil to remove the ground piercing member from the ground. A lock is provided to selectively limit relative movement of the ground piercing member and the housing to prevent the second hammer from contacting the second striking face of the anvil.

TITLE OF THE INVENTION:

Post With Integral Hammer And Anvil

FIELD OF THE INVENTION

5 The present invention relates to a post with an integral hammer and anvil, which is used to pound the post into the ground and remove the post.

BACKGROUND OF THE INVENTION

10 United States Patent 3,143,817 (Paulson 1964) discloses a post with an integral hammer and anvil that enables a ground piercing member forming part of the post to be hammered into the ground or hammered out of the ground. The ground piercing member is elongate and has a ground piercing
15 end and an anvil end. An anvil is positioned at the anvil end of the ground piercing member. This anvil has a first striking face and a second striking face. The first striking face is opposed to the second striking face. A tubular housing is provided a first end, a second end, and an
20 interior cavity. The anvil is positioned within the interior cavity of the housing with the ground piercing member extending through the second end of the housing. A first hammer is positioned at the first end of the housing. Relative movement of the ground piercing member and the
25 housing brings the first hammer into contact with the first striking face of the anvil to drive the ground piercing end of the ground piercing member into the ground. A second hammer is positioned at the second end of the housing. Relative movement of the ground piercing member and the
30 housing brings the second hammer into contact with the second striking face of the anvil to remove the ground piercing end of the ground piercing member from the ground.

35 When a post similar to that disclosed in the Paulson reference is used to tether horses, problems arise. In response to a force exerted by the horse, the post tends to telescopically extend. Once the post is in a telescopically

extended position, the horse is able to exert sufficient leverage to either pull the post out of the ground or bend ground piercing member.

5 **SUMMARY OF THE INVENTION**

What is required is an improved form of post that will address the problem in the prior art.

10 According to the present invention there is provided a post which includes an elongate ground piercing member having a ground piercing end and an anvil end. An anvil is positioned at the anvil end of the ground piercing member. The anvil has a first striking face and a second striking face. The second striking face is opposed to the first
15 striking face. A tubular housing has a first end, a second end, and an interior cavity. The anvil is positioned within the interior cavity of the housing with the ground piercing member extending through the second end of the housing. A first hammer is positioned at the first end of the housing.
20 Relative movement of the ground piercing member and the housing brings the first hammer into contact with the first striking face of the anvil to drive the ground piercing end of the ground piercing member into the ground. A second hammer is positioned at the second end of the housing.
25 Relative movement of the ground piercing member and the housing brings the second hammer into contact with the second striking face of the anvil to remove the ground piercing end of the ground piercing member from the ground. A lock is provided which engages the ground piercing member and the
30 housing. This selectively limits relative movement of the ground piercing member and the housing to prevent the second hammer from contacting the second striking face of the anvil.

35 Providing the post with a lock, as described above, prevents the telescopic extension of the post. This makes the post suitable for use with horses and other domestic animals. Beneficial results have been obtained through the

use of a lock which includes a transverse passage which is adapted to receive a locking pin. The transverse passage is spaced from the first end of the housing, laterally spaced from the ground piercing member and underlies the anvil. The locking pin engages the anvil on the ground piercing member to limit relative movement of the ground piercing member and the housing.

Although beneficial results may be obtained through the use of the post, as described above, the post has utility as a signpost and in a number of applications for which theft would be a matter of concern. Even more beneficial results may, therefore, be obtained when the pin has a remote end which has an aperture adapted to receive a padlock.

In order to adapt the post for use with animals means must be provided to attach a tethering line. It is preferred that the means for attaching a tethering line be positioned adjacent to the second end of the housing. This positioning is intended to make it practically impossible for the animal to pull the post over.

Although beneficial results may be obtained through the use of the invention as a tethering post, as described above, animals can become tangled in the tethering line. Even more beneficial results may, therefore, be obtained when a portion of the tethering line positioned immediately adjacent to the animal is covered by a rigidifying sleeve.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features of the invention will become more apparent from the following description in which reference is made to the appended drawings, the drawings are for the purpose of illustration only and are not intended to in any way limit the scope of the invention to the particular embodiment or embodiments shown, wherein:

FIGURE 1 is perspective view of a post fabricated in

accordance with the teachings of the present invention being used to tether a horse.

FIGURE 2 is side elevation view, in section, of the post illustrated in **FIGURE 1** being pounded into the ground.

5 **FIGURE 3** is side elevation view, in section, of the post illustrated in **FIGURE 1** being pounded out of the ground.

FIGURE 4 is side elevation view, in section, of the post illustrated in **FIGURE 1** locked to prevent unauthorized removal. **FIGURE 5** is top plan view, in section, of the post
10 illustrated in **FIGURE 1**, with locking pin in a first transverse passage to allow relative rotation between the ground piercing member and the housing.

FIGURE 6 is top plan view, in section, of the post illustrated in **FIGURE 1**, with locking pin in a second
15 transverse passage to prevent relative rotation between the ground piercing member and the housing.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The preferred embodiment, a post generally identified by
20 reference numeral 10, will now be described with reference to **FIGURES 1** through 6.

Structure and Relationship of Parts:

Referring to **FIGURE 2**, there is provided a post 10 that
25 includes an elongate ground piercing member 12 that has a ground piercing end 14 and an anvil end 16 at which is positioned an anvil 18. Anvil 18 has a first striking face 20 and a second striking face 22. A tubular housing 24 is provided that has a first end 26, a second end 28, and an
30 interior cavity 30. Anvil 18 is positioned within interior cavity 30 of housing 24 with ground piercing member 12 extending through second end 28 of housing 24. A first hammer 32 is positioned at first end 26 of housing 24, such that relative movement of ground piercing member 12 and
35 housing 24 brings first hammer 32 into contact with first striking face 20 of anvil 18 to drive ground piercing end 14 of ground piercing member 12 into the ground 34. Referring

to **FIGURE 3**, a second hammer 36 is positioned at second end 28 of housing 24, such that relative movement of ground piercing member 12 and housing 24 brings second hammer 36 into contact with second striking face 22 of anvil 18 to remove ground piercing end 14 of ground piercing member 12 from ground 34.

Referring to **FIGURE 4**, a transverse passage 38 is adapted to receive a locking pin 40 that is spaced from first end 26 of housing 24. Transverse passage 38 is laterally spaced from ground piercing member 12 and underlies anvil 18 such that locking pin 40 engages anvil 18 to thereby limit relative movement of ground piercing member 12 and housing 24. This prevents second hammer 36 from contacting second striking face 22 of anvil 18, and discourages unauthorized removal of post 10. Referring to **FIGURE 5**, locking pin 40 has a remote end 42 which has an aperture 44 adapted to receive a padlock 46.

Referring to **FIGURE 4**, an attachment tab 48 is positioned adjacent to second end 28 of housing 24. Referring to **FIGURE 1**, attachment tab 48 has an opening 50 adapted for attachment of a tethering line 52. In the illustrated embodiment, a portion of tethering line 52 that is positioned immediately adjacent to an animal, as will hereinafter be further described, is covered by a rigidifying sleeve 54.

Operation:

The use and operation of post generally identified by reference numeral 10, will now be described with reference to **FIGURES 1** through **5**. Referring to **FIGURE 1**, there is provided post 10 as described above, with a horse 56 tethered to post 10 by tethering line 52. Tethering line 52 has a first end 51 and a second end 53. Although post 10 is shown in use with horse 56, it will be appreciated that post 10 could also be used in association with other animals, or even in other

application such as a signpost or anchor for any item.

Referring to **FIGURE 2**, in order to use post 10, first hammer 32 is brought into violent contact with first striking face 20 of anvil 18 to drive ground piercing end 14 of ground piercing member 12 into ground 34. Referring to **FIGURE 4**, once ground piercing end 14 of ground piercing member 12 is securely embedded in ground 34, locking pin 40 is inserted into transverse passage 38. Referring to **FIGURE 5**, padlock 46 is then inserted through aperture 44 at remote end 42 of locking pin 40 and locked. Referring to **FIGURE 4**, padlock 46 prevents locking pin 40 from being removed. Locking pin 40 engages anvil 18 to limit relative movement of ground piercing member 12 and housing 24 to prevent second hammer 36 from contacting second striking face 22 of anvil 18. Post 10 cannot, therefore, be removed from ground 34 in which it is embedded until locking pin 40 is removed from transverse passage 38.

Referring to **FIGURE 1**, horse 56 can then be tethered to post 10 by attaching first end 51 of tethering line 52 to attachment tab 48. Attachment tab 48 is positioned adjacent to second end 28 of housing 24, so that horse 56 is unable to exert any leverage to loosen post 10 or pull post 10 over. Rigidifying sleeve 54 covers a portion of tethering line 52 at second end 53 to prevent horse from becoming become tangled in tethering line 52.

Referring to **FIGURE 4**, when it becomes necessary to remove post 10. Padlock 46 unlocked and removed from remote end 42 of locking pin 40. Locking pin 40 is then removed from transverse passage 38. Referring to **FIGURE 3**, with locking pin 40 removed, relative movement of ground piercing member 12 and housing 24 is no longer impeded. Relative movement of ground piercing member 12 and housing 24 therefore brings second hammer 36 into contact with second striking face 22 of anvil 18 to remove ground piercing end 14 of ground piercing

member 12 from ground 34. This can be done either with tether line 52 connected or disconnected from post 10.

The example given above relates to the tethering of a horse. When tethering a horse, it is preferred that the tubular housing be able to rotate. If tubular housing does not rotate the tethering line will become wrapped around the post and shortened as the horse circles the post. In order to permit tubular housing 24 to rotate, locking pin 40 must be positioned to one side of anvil end 16 of ground piercing member 12, as is illustrated in **FIGURES 4** and **5**. However, if relative rotation of ground piercing member 12 and housing 12 is not desired, locking pin 40 can be inserted into second transverse passage 39 which extends right through ground piercing member 12. An example of an application in which rotation is not desirable is for a sign post. Referring to **FIGURE 1**, it is preferred that a first transverse passage 38 and a second transverse passage 39 be provided through housing 24. Referring to **FIGURES 4** and **5**, first transverse passage 38 is laterally offset from ground piercing member 12. Referring to **FIGURE 6**, second transverse passage 39 extends directly through ground piercing member 12. This enables the user to decide whether to rotationally affix or non-rotationally affix housing 24 to ground piercing member 12 by reselecting first transverse pasage 38 or second transverse passage 39.

In this patent document, the word "comprising" is used in its non-limiting sense to mean that items following the word are included, but items not specifically mentioned are not excluded. A reference to an element by the indefinite article "a" does not exclude the possibility that more than one of the element is present, unless the context clearly requires that there be one and only one of the elements.

35

It will be apparent to one skilled in the art that modifications may be made to the illustrated embodiment

without departing from the spirit and scope of the invention
as hereinafter defined in the Claims.

**THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE
PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:**

5 1. A post, comprising:

an elongate ground piercing member having a ground
piercing end and an anvil end at which is positioned an
anvil, the anvil having a first striking face and a second
striking face, the second striking face being opposed to the
10 first striking face;

a tubular housing having a first end, a second end, and
an interior cavity, the anvil being positioned within the
interior cavity of the housing with the ground piercing
member extending through the second end of the housing;

15 a first hammer positioned at the first end of the
housing, such that relative axial movement of the ground
piercing member and the housing brings the first hammer into
contact with the first striking face of the anvil to drive
the ground piercing end of the ground piercing member into
20 the ground;

a second hammer positioned at the second end of the
housing, such that relative axial movement of the ground
piercing member and the housing brings the second hammer into
contact with the second striking face of the anvil to remove
25 the ground piercing end of the ground piercing member from
the ground; and

a lock engaging the ground piercing member and the
housing to selectively limit relative axial movement of the
ground piercing member and the housing to prevent the second
30 hammer from contacting the second striking face of the anvil.

2. The post as defined in Claim 1, wherein the lock includes
a transverse passage spaced from the first end of the housing
which is adapted to receive a locking pin, the locking pin
35 engaging the anvil end of the ground piercing member to limit
relative axial movement of the ground piercing member and the
housing.

3. The post as defined in Claim 2, wherein the transverse passage is laterally spaced from the ground piercing member and underlies the anvil such that the locking pin permits relative rotational movement of the ground piercing member and the housing, while engaging the anvil to limit relative axial movement of the ground piercing member and the housing.

4. The post as defined in Claim 1, wherein means is provided to attach a tethering line adjacent to the second end of the housing.

5. The post as defined in Claim 2 wherein the locking pin has a remote end which has an aperture adapted to receive a padlock.

6. A post, comprising:

an elongate ground piercing member having a ground
piercing end and an anvil end at which is positioned an
5 anvil, the anvil having a first striking face and a second
striking face;

a tubular housing having a first end, a second end, and
an interior cavity, the anvil being positioned within the
interior cavity of the housing with the ground piercing
10 member extending through the second end of the housing;

a first hammer positioned at the first end of the
housing, such that relative axial movement of the ground
piercing member and the housing brings the first hammer into
contact with the first striking face of the anvil to drive
15 the ground piercing end of the ground piercing member into
the ground;

a second hammer positioned at the second end of the
housing, such that relative axial movement of the ground
piercing member and the housing brings the second hammer into
20 contact with the second striking face of the anvil to remove
the ground piercing end of the ground piercing member from
the ground;

a first transverse passage adapted to receive a locking
pin being spaced from the first end of the housing, the
25 transverse passage being laterally spaced from the ground
piercing member and underlying the anvil such that the
locking pin permits relative rotational movement of the
ground piercing member and the housing, while engaging the
anvil to limit relative axial movement of the ground piercing
30 member and the housing to prevent the second hammer from
contacting the second striking face of the anvil; and

an attachment tab positioned adjacent to the second end
of the housing, the attachment tab having an opening adapted
for attachment of a tethering line for an animal.
35

7. The post as defined in Claim 6, wherein a portion of the
tethering line positioned immediately adjacent to the animal

is covered by a rigidifying sleeve.

8. The post as defined in Claim 6, wherein the locking pin
has a remote end which has an aperture adapted to receive a
5 padlock.

9. The post as defined in Claim 6, wherein a second
transverse passage is provided which extends through both the
housing and the piercing member, thereby engaging the anvil
10 end of the ground piercing member to limit relative
rotational movement of the ground piercing member and the
housing while limiting relative axial movement of the ground
piercing member and the housing to prevent the second hammer
from contacting the second striking face of the anvil.

10. A post, comprising:

an elongate ground piercing member having a ground
piercing end and an anvil end at which is positioned an
5 anvil, the anvil having a first striking face and a second
striking face;

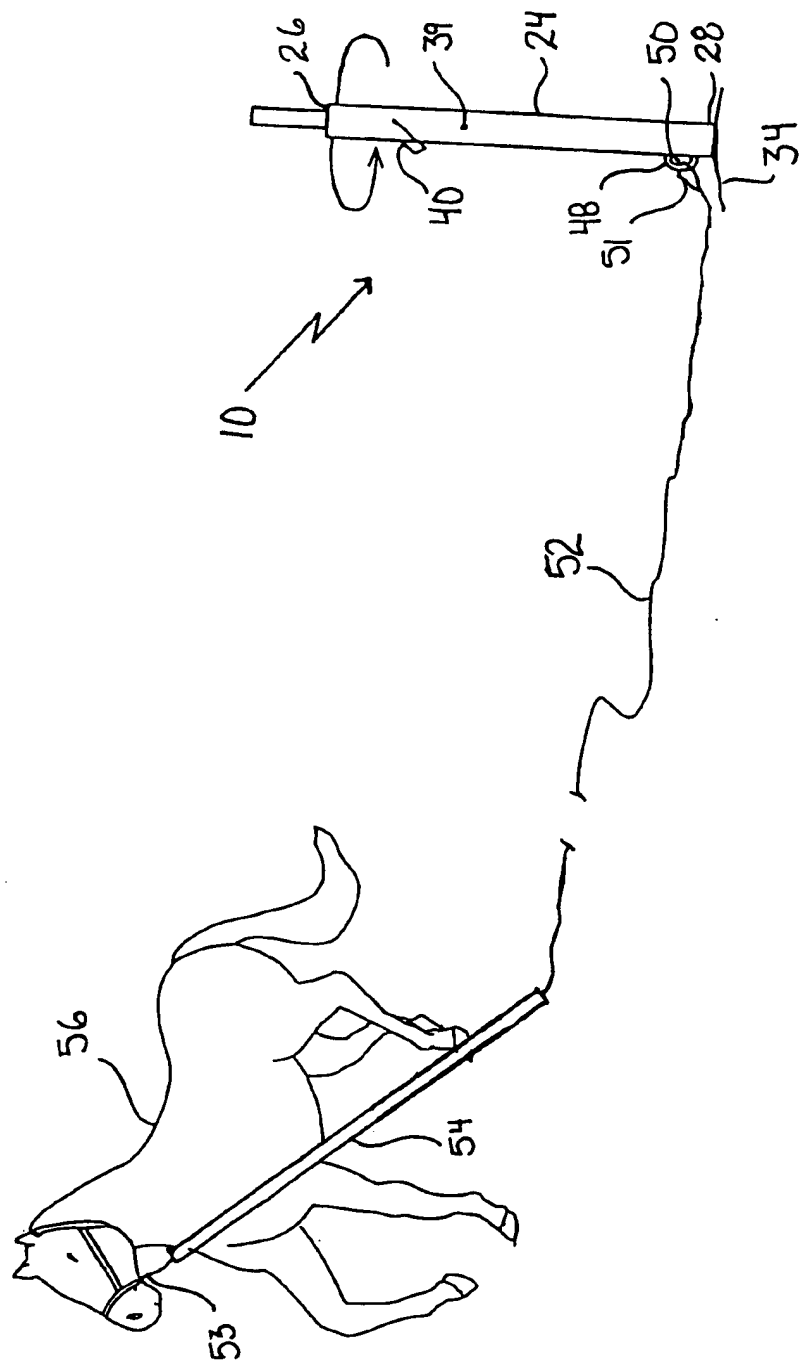
a tubular housing having a first end, a second end, and
an interior cavity, the anvil being positioned within the
interior cavity of the housing with the ground piercing
10 member extending through the second end of the housing;

a first hammer positioned at the first end of the
housing, such that relative axial movement of the ground
piercing member and the housing brings the first hammer into
contact with the first striking face of the anvil to drive
15 the ground piercing end of the ground piercing member into
the ground;

a second hammer positioned at the second end of the
housing, such that relative axial movement of the ground
piercing member and the housing brings the second hammer into
20 contact with the second striking face of the anvil to remove
the ground piercing end of the ground piercing member from
the ground;

a transverse passage adapted to receive a locking pin
being spaced from the first end of the housing, the
25 transverse passage extending through the anvil end of the
ground piercing member such that the locking pin limits both
relative rotational movement and relative axial movement of
the ground piercing member and the housing.

30 11. The post as defined in Claim 11, wherein the locking pin
has a remote end which has an aperture adapted to receive a
padlock.



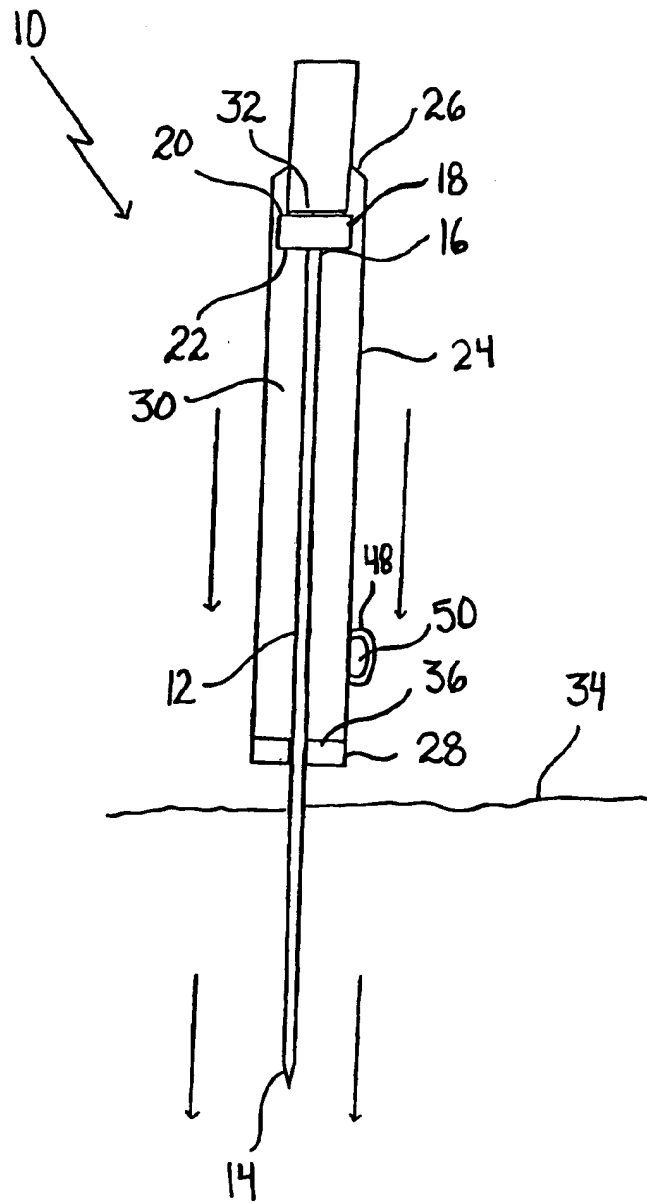
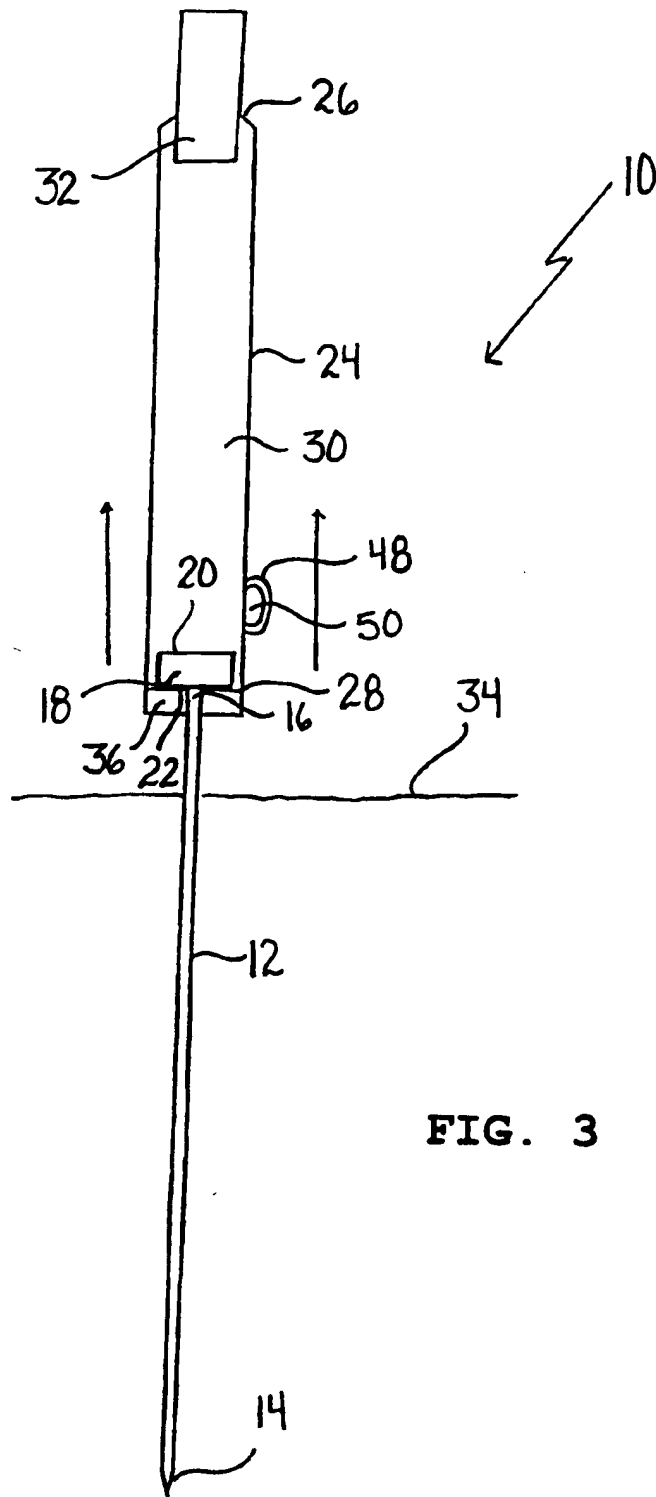


FIG. 2



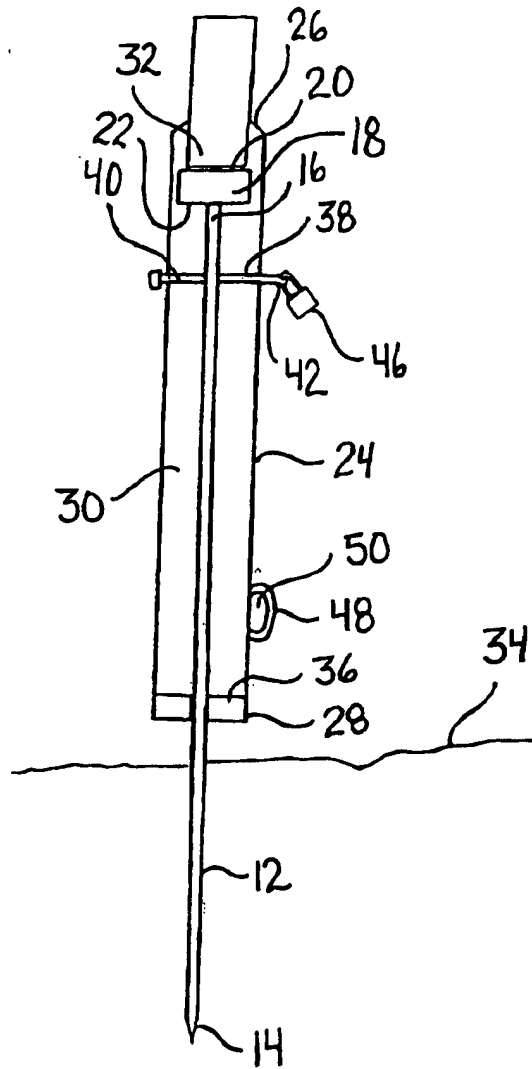


FIG. 4

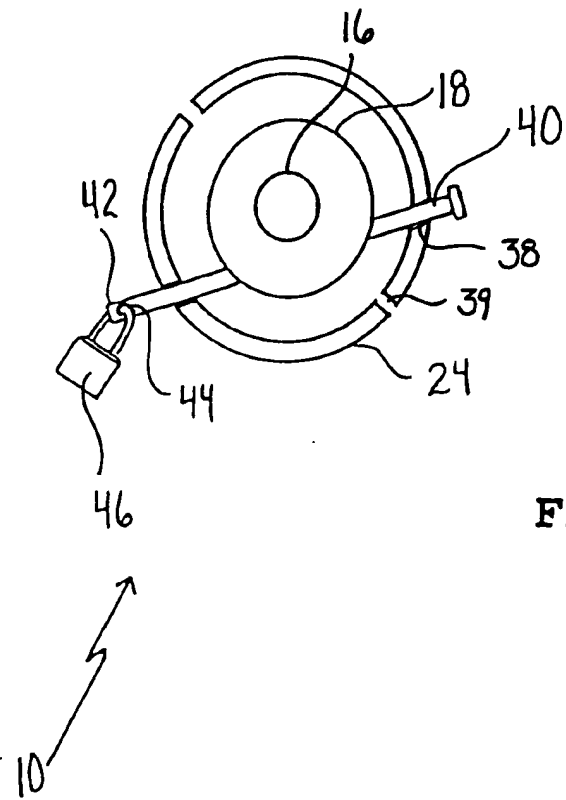


FIG. 5

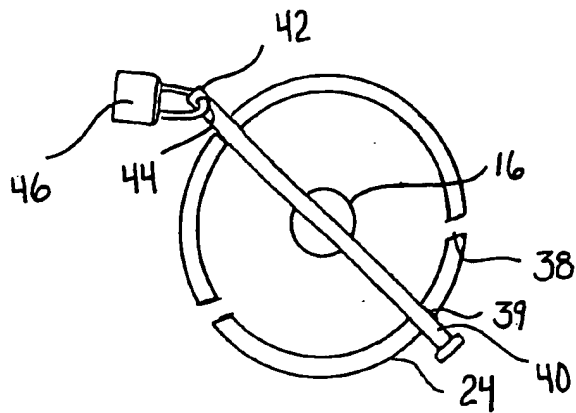


FIG. 6

